

National Nuclear Security Administration

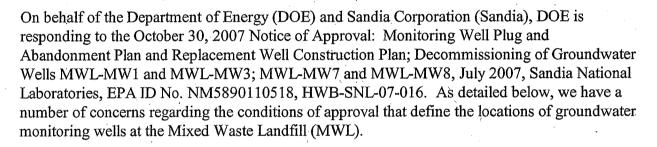
Sandia Site Office P.O. Box 5400 Albuquerque, New Mexico 87185-5400

DEC 0 5 2007

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James Bearzi Chief Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Road East Building E Santa Fe, New Mexico 87505

Dear Mr. Bearzi:



The New Mexico Environment Department (NMED) identified the following conditions:

- The proposed location of monitor well MWL-MW7 must be moved 80 feet at a bearing of 30° northeast from where it is shown on Figure 1 in the work plan.
- The proposed location of monitor well MWL-MW8 must be moved 100 feet at a bearing of 40° northeast.
- Both new wells shall be positioned as close as possible to the former west fence that originally surrounded the Mixed Waste Landfill.

In addition, the NMED states that they are ". . . aware that, once installed, the new wells will fall within the footprint of the new cover."

As DOE and Sandia believe the cited conditions will have the potential to affect the integrity of the MWL engineered cover over the long term and conflict with the groundwater monitoring well locations proposed in Long-Term Monitoring Maintenance Plan (LTMMP), DOE and Sandia respectfully request that NMED reconsider these conditions. DOE and Sandia detail the following reasons:

• Structural Integrity and Performance of the Engineered Cover--The NMED locations pose a threat to the integrity of the engineered cover. Placement of wells through the cover could result in preferential pathways for liquids over the long term. As noted on

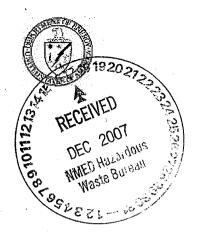


Figure 1 from the work plan (see enclosure for revised Figure 1) the engineered topography of the cover slopes to the west. In order to protect the wellhead, the slope of the cover would need to be redesigned which would involve a significant effort and significant delays in implementing the remedy. While design changes could alleviate some concerns, such as protecting the wellhead, the potential for creating conduits over the long term remains a critical issue.

- Structural Integrity and Performance of the Monitoring Wells--If the wells are installed prior to the installation of the cover (as currently planned), the well casing would have to be extended to the new surface of the cover. In addition, the protective casing would have to be extended approximately 8 to 10 feet and the concrete pad and other surface completion features would have to be installed. Any disturbance to the well could compromise the integrity of the well. The revised completion on the cover would require re-survey of the critical monitoring well elevations. In addition, during the cover installation there will be significant traffic of heavy equipment in a very close proximity to the wellheads, again, affording an opportunity for damage.
- Access and Security Issues--DOE and Sandia proposed the locations of the wells to be just outside of the security fence that will be installed following cover completion. With this location outside the fence, there is no need for the sampling equipment truck to drive onto the cover to access the wells for sampling. The security plan specifies that only one gate will access the cover and that is on the north side. Driving across the cover would have the potential to cause damage to the crucial vegetation on the cover and to the integrity of the soil compaction that may lead to erosion.
- Conflicts with the Monitoring Network Proposed in the LTMMP--In the LTMMP (currently in NMED and public review) the DOE and Sandia proposed three wells on the western side of the landfill (outside of the security fence) to replace current monitoring wells, MWL-MW-1, -2, and -3. These three wells (MWL-MW-7, -8, and -9) are shown on Figure 3.5.1-1 in the LTMMP. The wells proposed in the LTMMP are evenly spaced along the western side of the landfill and represent downgradient points of compliance. The proposed NMED locations would significantly change this configuration. In addition, the NMED locations interfere with the neutron access tubes (already in place) and the locations for the soil-vapor sampling wells as proposed in the LTMMP. The two proposed soil-vapor wells located on the west side of the landfill are evenly space along the edge of the cover (Figure 3.4.1-1 in the LTMMP). Please refer to Figure 1 (enclosed), which includes all monitoring and soil-vapor well locations proposed in the LTMMP and the proposed NMED locations. DOE- and Sandia are currently preparing a plugging and abandonment plan for MWL-MW2 that includes the installation of MWL-MW9 at the location shown on Figure 1.

Mr. Bearzi

DOE and Sandia would like to meet with you and your staff to discuss this issue. We believe that a quick resolution is of the utmost importance for complying with the March 31, 2008 deadline imposed by the NMED. DOE and Sandia are currently in the process of obtaining approvals from the Office of the State Engineer and scheduling a drilling contractor for this work.

(3)

If you have any questions regarding this submittal, please contact me at (505) 845-6036, or Dan Pellegrino of my staff at (505) 845-5398.

Sincerely,

Patty Wagner

Manager

Enclosure

cc w/enclosure:

W. Moats, NMED-HWB (Via Certified Mail)

L. King, EPA, Region 6 (Via Certified Mail)

T. Skibitski, NMED-OB

B. Birch. NMED-OB

cc w/o enclosure:

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D. Miller, SNL/NM, Org 6765, MS 0718

P. Freshour, SNL/NM, Org. 6765, MS 1089

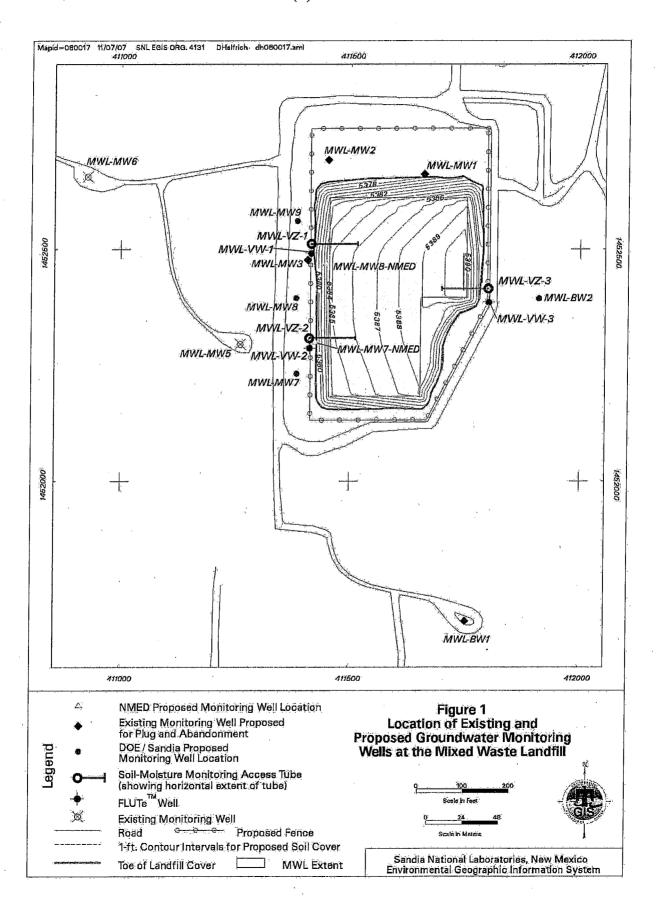
S. Griffith, SNL/NM, Org.6765, MS 1089

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T. Longo, HQ/GTN, NA-56

J. Estrada, SSO, MS 0184



CERTIFICATION STATEMENT FOR APPROVAL AND FINAL RELEASE OF DOCUMENTS

Document title: Response to Notice of Approval: Monitoring Well Plug and

Abandonment Plan and Replacement Well Construction Plan; Decommissioning of Groundwater Monitoring Wells MWL-MW1 and MWL-MW3; Installation of Replacement Groundwater Monitoring Wells MWL-MW7 and MWL-MW8. July 2007 (HWB-

SNL07-016) November 2007

Document author: Stacy Griffith, Dept. 6765

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Signature:

Francis Bi Nimick

Deputy to the

Nuclear Energy and Global Security Technologies

Center 6700

Sandia National Laboratories/New Mexico

Albuquerque, New Mexico 87185

Operator

and

Signature:_

Patty Wagner

Manager

U.S. Department of Energy

National Nuclear Security Administration

Sandia Site Office

Owner and Co-Operator